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(Date)

26304 7590 10/16/2007
KATTEN MUCHIN ROSENMAN LLP
575 MADISON AVENUE
NEW YORK, NY 10022-2585
Customer Number: 026304

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/500,786	07/02/2004	Ralph C. Longworth	SHI 19.251 (310010-00106)	8458
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TITLE OF INVENTION: PULSE TUBE COOLING BY CIRCULATION OF BUFFER GAS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	01/16/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS	11/01/2007 INTEFSW 00002482 10500786
DOERRLER, WILLIAM CHARLES	3744	062-600000	01 FC:1501 1440.00 DA 02 FC:1501 300.00 DA

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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2. For printing on the patent front page, list
(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Katten Muchin
2 Rosenman LLP
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE
SHI-APD Cryogenics, Inc.
Sumitomo Heavy Industries, Ltd.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
Allentown, PA
Tokyo, Japan

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

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☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

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Authorized Signature / Martha M. Rumore
Typed or printed name Martha M. Rumore

Date 10/31/2007
Registration No. 47,046

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